

Lesson Plan for the Month August 2022 to December 2022		Subject : Digital Electronics and Fundamental of computers	
Name of the Teacher	MEENU	Class	B.Sc Ist Sem
23-08-2022 To 27-08-2022	Data Representation: Concept of number system bases – binary, decimal and hexadecimal number systems and conversion between each.		
29-08-2022 To 3-09-2022	Binary arithmetic: Addition, subtraction 1s and 2s complement system, multiplication. Codes: BCD, ASCII, Floating point representation.		
05-09-2022 To 10-09-2022	Boolean Algebra: Boolean functions: AND, OR and NOT, NAND, NOR and XOR. Truth tables, Combinational logic in Venn diagrams. Realization of other logic gates using NAND and NOR. Laws of Boolean Algebra		
12-09-2022 To 17-09-2022	De-Morgan's theorems. Min terms, SOP expressions, Max terms, POS expressions, Karnaugh maps.		
19-09-2022 To 24-09-2022	Flip flops – SR flip flop, JK flip flop, Master Slave, D and T flip flops.		
26-09-2022 To 01-10-2022	Digital Circuits: Multiplexer, Full and half adders, Subtractors – half and full subtractors, Comparators – 1 bit and 2 bit,		
3-10-2022 To 8-10-2022	Counters, Decoder and display, shift registers, de-multiplexer and keyboard encoder.		
10-10-2022 To 15-10-2022	Computer: Definition, Block Diagram along with its components, characteristics & classification of computers, Limitations of Computers, Human-Being VS Computer, Applications of computers in various fields		
17-10-2022 To 21-10-2022	Information Technology: Definition, Scope, Applications, IT Tools. Operating system: Operating system, Types of Operating system, Function of Operating system, Features of Window OS, Types of Software, Proprietary and Open Source software.		
22-10-2022 To 30-10-2022	Break		
31-10-2022 To 05-11-2022	Input devices, Output devices, Printers. Memory: Concept of primary & secondary memory, RAM, ROM, types of ROM, Secondary storage devices		
07-11-2022 To 12-11-2022	Overview of Networking: An introduction to computer networking, Types of Network, Network topologies, Modes of data transmission, Transmission media.		
14-11-2022 To 19-11-2022	Understanding Word Processing : Word Processing Basics : Opening and Closing of documents, Saving a document, Menu Bar, Ribbon, Page setup, Formatting Text, Editing, Printing, drawing Table, manipulating Table		
21-11-2022 To 26-11-2022	Working with Graphics, Mail merge, Inserting equation, Word Art, Smart Art, Header and footer, Track changes, Macros		
28-11-2022 To 03-12-2022	Working with Presentation: Basic of presentation software, Opening, Saving, Creating a Presentation, Preparation and Presentation of slides, entering and editing text, insert and delete slides, adding clip art picture		
05-12-2022 To 10-12-2022	Using Spread Sheet: Basic of Spread Sheet, Elements of Spread Sheet, Manipulation of cells, saving workbook, entering data, formatting worksheet, Formulas and Functions.		

12-12-2022 To 17-12-2022	Working with Charts and Graphics, Data Validation, Conditional Formatting, Sorting, Filtering , Advance Filter, Page Layout .
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Lesson Plan for the Month August2022 to December 2022		Subject : Data Structure	
Name of the Teacher	MEENU	Class	B.Sc II year
16-08-2022 To 20-08-2022	Introduction to Data Structure ,arrays		
22-08-2022 To 27-08-2022	Linear and Binary Search		
29-08-2022 To 3-09-2022	Elementry Sorting Techniques: Bubble Sort		
05-09-2022 To 010-09-2022	Insertion Sort, Merge Sort, Selection Sort		
12-09-2022 To 17-09-2022	Advanced Sorting Techniques :Heap Sort, Quick Sort		
19-09-2022 To 24-09-2022	Sorting in linear time- Bucket Sort ,Radix Sort and count sort		
26-09-2022 To 01-10-2022	Recursion . Stack and Linked List Introduction		
3-10-2022 To 8-10-2022	Implimentation Stack using array and linked list Prefix ,infix and postfix expression .Utility and conversion of these expression .		
10-10-2022 To 15-10-2022	Queue :Array and Linked list representation of queue,Dequeue,Priority Queue		
17-10-2022 To 21-10-2022	Singly,Doubly And Circular linked list		
22-10-2022 To 30-10-2022	Break		
31-10-2022 To 05-11-2022	Representation of Stack and queue as Linked list .		
07-11-2022 To 12-11-2022	Trees Introduction ,Binary Tree ,BST		
14-11-2022 To 19-11-2022	Tree Traversal algorithms in BST		
21-11-2022 To 26-11-2022	Basic Design and analysis techniques of algorithms. Correctness of algorithm		
28-11-2022 To 03-12-2022	Iterative Techniques,Divide and Conquer ,Dynamic Programming ,Greedy algorithms		
05-12-2022 To 10-12-2022	Median & Order Statistics		
12-12-2022 To 17-12-2022	Revision		

Lesson Plan for the Month August2022 to December 2022			Subject : Computer System Architecture	
Name of the Teacher	MEENU	Class	PGDCA	
07-10-2022 To 15-10-2022	Data Representation: Concept of number system bases – binary, decimal and hexadecimal number systems and conversion between each. Binary arithmetic: Addition, subtraction 1s and 2s complement system, multiplication. Codes: BCD, ASCII, Floating point representation. Boolean Algebra: Boolean functions: AND, OR and NOT, NAND, NOR and XOR. Truth tables, Combinational logic in Venn diagrams. Realization of other logic gates using NAND and NOR. Laws of Boolean Algebra			
17-10-2022 To 21-10-2022	De-Morgan's theorems. Min terms, SOP expressions, Max terms, POS expressions, Karnaugh maps. Flip flops – SR flip flop, JK flip flop, Master Slave, D and T flip flops. Digital Circuits: Multiplexer, Full and half adders, Subtractors – half and full subtractors, Comparators – 1 bit and 2 bit,			
22-10-2022 To 30-10-2022	Break			
31-10-2022 To 05-11-2022	Counters, Decoder and display, shift registers, de-multiplexer. Register Transfer Language.			
07-11-2022 To 12-11-2022	Bus & Memory Transfer. Different types of Microoperations.			
14-11-2022 To 19-11-2022	Basic Computer Organisation & Design: Instruction Codes, Computer Registers, Computer Instructions, Timing & Control.			
21-11-2022 To 26-11-2022	Instruction Cycle, Memory Ref. Instructions, Input Output & Interrupt . Design Basic Computer. Design of accumulator.			
28-11-2022 To 03-12-2022	Machine language, Assembly Language, Assembler. Programming Arithmetic, Subroutines.			
05-12-2022 To 10-12-2022	General register organization, Stack Organisation, Instruction Format, Addressing Modes. RISC.			
12-12-2022 To 17-12-2022	Pipeline Processing & Array Processors			
19-12-2022 To 23-12-2022	Revision			

Lesson Plan for the Month August2022 to December 2022			Subject : Data Structure Using C	
Name of the Teacher	MEENU	Class	PGDCA	
07-10-2022 To 15-10-2022	Programming using logic 'C', C fundamentals, Introduction to C, C character Set, Data types, Constants, Variables, Identifiers and keywords, Literals, Strings. Different types of Operators used in C(Arithmetic, Relational, Logical or Boolean, assignment Operator, Ternary Operator, Bitwise Operator, Increment or decrement Operator)			

17-10-2022 To 21-10-2022	Input Output Functions,% Format Specifiers, Control Statement: Control Loops, Conditional Execution and Nesting Of loops and Conditional statements. Function Definition, accessing and Passing arguments to a function ,function Prototypes, Recursion
22-10-2022 To 30-10-2022	Break
31-10-2022 To 05-11-2022	Arrays and Strings :Single & Multidimensional Arrays, Introduction to Strings ,String processing. Pointer ,Structure and Union: Understanding Pointers, Pointers and Arrays ,Pointer to Function, Defining and processing Structures ,Pointer and Structure, Concept Of Union
07-11-2022 To 12-11-2022	Data-Structure: Data-Structure operations, Algorithm, Complexity, Data structure and its essence.Introduction to Arrays, Array operations, Multi-dimensional arrays, sequential allocation, address calculations, sparse arrays.
14-11-2022 To 19-11-2022	Stacks-Introduction to Stacks, primitive operations on stacks, representation of stacks as an array and stack-applications. Queues:-Introduction to queues, operations on queue, circular queue, priority queue, Applications of queue
21-11-2022 To 26-11-2022	Linked List-introduction and basic operations, Header nodes, doubly linked list, circular linked list, Applications of linked list, Representation of linked list as an array, stacks and queues.
28-11-2022 To 03-12-2022	Tree structures: Basic terminology, binary trees and binary search trees, implementing binary trees.
05-12-2022 To 10-12-2022	Tree traversal algorithms, threaded trees, trees in search algorithms, AVL Trees, Polish notation and expression trees, applications of binary trees
12-12-2022 To 17-12-2022	Graph data structure and their applications. Graph traversals, shortest paths, spanning trees and related algorithms
19-12-2022 To 23-12-2022	Revision